



Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS  
 20:CLASS 21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom  
 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom

L3 STRUCTURE UPLOADED

=> d  
 L3 HAS NO ANSWERS  
 L3 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s 13 sam  
 SAMPLE SEARCH INITIATED 12:54:55 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 61071 TO ITERATE

3.3% PROCESSED 2000 ITERATIONS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 1206671 TO 1236169  
 PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s 13 full  
 FULL SEARCH INITIATED 12:55:02 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 1227365 TO ITERATE

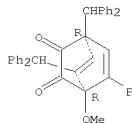
100.0% PROCESSED 1227365 ITERATIONS  
 SEARCH TIME: 00.00.08

L5 18 SEA SSS FUL L3

=> d 15 1-18

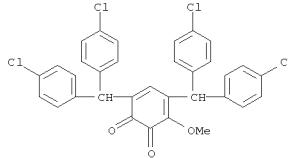
L5 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RN 1026261-93-7 REGISTRY  
 ED Entered STN: 08 Jun 2008  
 CN Phosphinecarboxylic acid, 1-[[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicos-1(20),6,8,10(21),11,14,16,18-octae-13-yl]oxy]-1-hydroxy-, 1-oxide (CA INDEX NAME)  
 FS STEREORESEARCH  
 MF C41 H32 O3  
 SR Other Sources  
 Database: ChemSpider (ChemZoo, Inc.)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

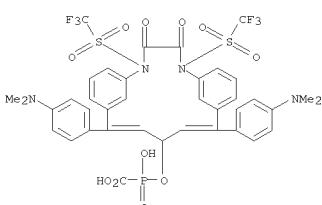
L5 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RN 870475-16-4 REGISTRY  
 ED Entered STN: 21 Dec 2005  
 CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-chlorophenyl)methyl]-3-methoxy- (CA INDEX NAME)  
 MF C33 H22 Cl4 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

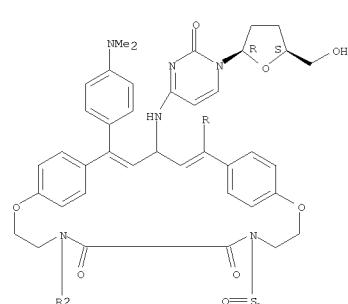
L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RN 849903-84-0 REGISTRY  
 ED Entered STN: 06 May 2005  
 CN Phosphinecarboxylic acid, 1-[[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicos-1(20),6,8,10(21),11,14,16,18-octae-13-yl]oxy]-1-hydroxy-, 1-oxide (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Phosphinecarboxylic acid, [[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicos-1(20),6,8,10(21),11,14,16,18-octae-13-yl]oxy]hydroxy-, oxide (9CI)  
 MF C39 H33 F6 N4 O11 F S2  
 CI COM  
 SR CA



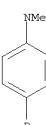
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RN 849736-77-2 REGISTRY  
 ED Entered STN: 04 May 2005  
 CN 11,20-Dioxa-14,17-diazatricyclo[19.2.2.27,10]heptacosa-2,5,7,9,21,23,24,26-octae-15,16-dione, 4-[(1,2-dihydro-2-oxo-1-(2R,5S)-tetrahydro-5-(hydroxymethyl)-2-furanyl)-4-pyrimidinyl]amino]-2,6-bis[4-(dimethylamino)phenyl]-14,17-bis[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)  
 FS STEREORESEARCH  
 MF C50 H51 F6 N7 O11 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.  
 Double bond geometry unknown.



PAGE 1-A



PAGE 2-A



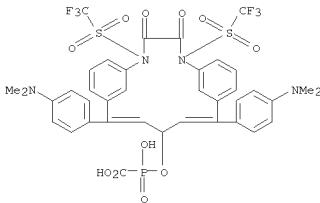
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
 RN 849736-74-9 REGISTRY  
 ED Entered STN: 04 May 2005  
 CN Phosphinecarboxylic acid, 1-[[11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicos-1(20),6,8,10(21),11,14,16,18-octae-13-yl]oxy]-1-hydroxy-, 1-oxide, sodium salt (1:2) (CA INDEX NAME)

## OTHER CA INDEX NAMES:

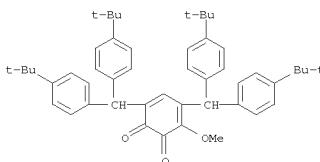
CN Phosphinecarboxylic acid, [(11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diazatricyclo[14.3.1.16,10]heneicos-1(20),6,8,10(21),11,14,16,18-octae-13-yl)oxy]-, disodium salt, 1-oxide (9CI)  
MF C39 H33 F6 N4 O11 P S2 . 2 Na  
SR CA  
LC STN Files: CA, CAPLUS, TOX CENTER, USPAI FULL  
CRN (849903-84-0)



●2 Na

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

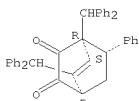
L5 ANSWER 6 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 289897-25-8 REGISTRY  
ED Entered STN: 27 Nov 2002  
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis[4-(1,1-dimethylethyl)phenyl]methyl]-3-methoxy- (CA INDEX NAME)  
MF C49 H58 O3  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 289897-62-7 REGISTRY  
ED Entered STN: 21 Sep 2000  
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-phenyl-, (IR,4R,7S)-rel- (CA INDEX NAME)  
FS STEREOSEARCH  
MF C40 H32 O2  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

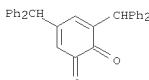
Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 247155-99-3 REGISTRY  
ED Entered STN: 15 Nov 1999  
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)  
MF C32 H24 O2  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

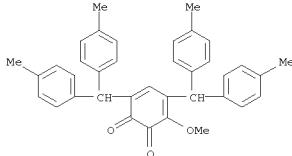
3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 212055-89-5 REGISTRY  
ED Entered STN: 01 Oct 1998  
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)  
OTHER NAMES:  
CN 4,6-Bis(diphenylmethyl)-3-methoxy-3,5-cyclohexadiene-1,2-dione  
MF C33 H26 O3

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 474622-24-7 REGISTRY  
ED Entered STN: 27 Nov 2002  
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-methylphenyl)methyl]-3-methoxy- (CA INDEX NAME)  
MF C37 H34 O3  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

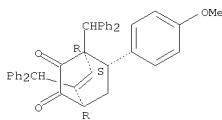


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

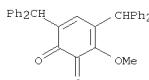
L5 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 289897-64-9 REGISTRY  
ED Entered STN: 21 Sep 2000  
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-(4-methoxyphenyl)-, (1R,4R,7S)-rel- (CA INDEX NAME)  
FS STEREOSEARCH  
MF C41 H34 O3  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

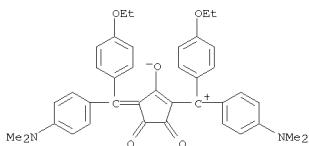
SR CA  
LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

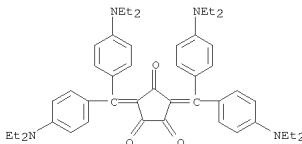
11 REFERENCES IN FILE CA (1907 TO DATE)  
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 138171-13-8 REGISTRY  
ED Entered STN: 03 Jan 1992  
CN Methylum, [4-(dimethylamino)phenyl]-3-[[[4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene]-2-hydroxy-4,5-dioxo-1-cyclopenten-1-yl](4-ethoxyphenyl)-, inner salt (9CI) (CA INDEX NAME)  
MF C39 H38 N2 O5  
SR CA  
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 126553-63-7 REGISTRY  
ED Entered STN: 13 Apr 1990  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[bis[4-(diethylamino)phenyl]methylene]- (CA INDEX NAME)  
MF C47 H56 N4 O3  
SR CA  
LC STN Files: CA, CAPLUS



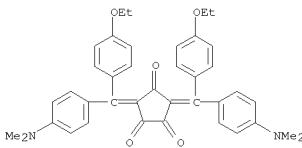
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 120381-50-2 REGISTRY  
ED Entered STN: 28 Apr 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis([4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene)-, perchlorate (1:1) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 1,2,4-Cyclopentanetrione, 3,5-bis([4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene)-, monoperchlorate (9CI)  
MF C39 H38 N2 O5 . Cl H O4  
SR CA  
LC STN Files: CA, CAPLUS

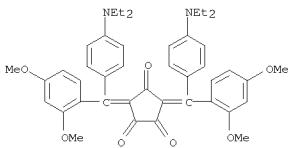
CM 1

CRN 120381-49-9  
CMF C39 H38 N2 O5



CM 2

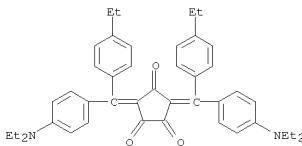
CRN 7601-90-3  
CMF C1 H O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 17 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 118880-14-1 REGISTRY  
ED Entered STN: 10 Feb 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis([4-(diethylamino)phenyl](4-ethylphenyl)methylene)- (CA INDEX NAME)  
MF C43 H46 N2 O3  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

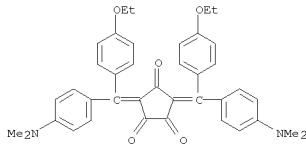
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 103566-78-5 REGISTRY  
ED Entered STN: 02 Aug 1986  
CN Nonanediamide, N,N'-dicyclohexyl-2,4,6,8-tetraoxo-3,3,7,7-tetraphenyl- (6CI) (CA INDEX NAME)  
MF C45 H46 N2 O6  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

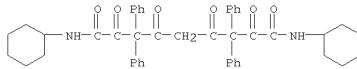
L5 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 120381-49-9 REGISTRY  
ED Entered STN: 28 Apr 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis([4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene)- (CA INDEX NAME)  
DR 120069-65-0  
MF C39 H38 N2 O5  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2010 ACS on STN  
RN 118880-15-2 REGISTRY  
ED Entered STN: 10 Feb 1989  
CN 1,2,4-Cyclopentanetrione, 3,5-bis([4-(diethylamino)phenyl](2,4-dimethoxyphenyl)methylene)- (CA INDEX NAME)  
MF C43 H46 N2 O7  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FULL ESTIMATED COST ENTRY SESSION  
231.79 232.01

FILE 'CAPLUS' ENTERED AT 12:55:37 ON 04 JUN 2010  
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 4 Jun 2010 VOL 152 ISS 24  
FILE LAST UPDATED: 3 Jun 2010 (20100603/ED)  
REVISED CLASS FIELDS (NCL) LAST RELOADED: Apr 2010  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2010  
Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

>> d his

(FILE 'HOME' ENTERED AT 12:51:41 ON 04 JUN 2010)

FILE 'REGISTRY' ENTERED AT 12:51:56 ON 04 JUN 2010  
L1 STRUCTURE UPLOADED  
L2 0 S L1 SAM  
L3 STRUCTURE UPLOADED  
L4 0 S L3 SAM  
L5 18 S L3 FULL

=> S 15  
L6 22 LS

=&gt; d 16 ibib gi abs hitstr 1-22

L6 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2009:1254984 CAPLUS  
 DOCUMENT NUMBER: 151:448286  
 TITLE: 1,3-Dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones: synthesis of novel spiro exabicycles. [Erratum to document cited in CA137:352928]

AUTHOR(S): Nair, Vijay; Sheela, K. C.; Sethumadhavan, D.; Dhanya, R.; Rath, Nigam P.

CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India

SOURCE: Tetrahedron (2009), 65(45), 9505

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

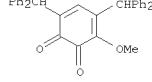
AB On page 4173, in Scheme 5, the structures labeled 10a-c and 11a-c, were incorrectly given, and should be reversed.

IT 212055-89-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (1,3-dipolar cycloaddn. reactions of carbonyl ylides with 1,2-diones  
 (Erratum))

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



L6 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1325041 CAPLUS

DOCUMENT NUMBER: 148:517512

TITLE: Construction of heterocycles via 1,4-dipolar cycloaddition of quinoline-DMAD zwitterion with various dipolarophiles

AUTHOR(S): Nair, Vijay; Devipriya, S.; Suresh, Eringathodi

CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, NISER, CSIR, Trivandrum, 695 019, India

SOURCE: Tetrahedron (2008), 64(16), 3567-3577

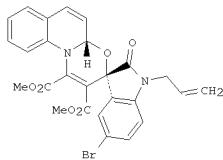
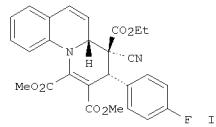
PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

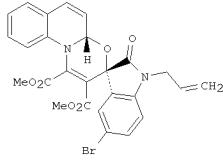
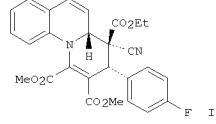
LANGUAGE: English

OTHER SOURCE(S): CASREACT 148:517512

GI



II  
GI



AB Quinoline forms a 1,4-zwitterion with di-Me acetylenedicarboxylate, which is trapped by various dipolarophiles to yield a variety of pyridoquinoline and exarinoquinoline derivs., e.g. I and II.

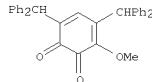
IT 212055-89-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(stereoselective preparation of pyridoquinolines and oxazinoquinolines via 1,4-dipolar cycloaddn. of quinoline-dimethyl acetylenedicarboxylate zwitterion with dipolarophiles)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:943699 CAPLUS

DOCUMENT NUMBER: 147:95110

TITLE: Product class 2: benzo-1,2-quinones

AUTHOR(S): Nair, V.; Radhakrishnan, K. V.

CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695019, India

SOURCE: Science of Synthesis (2006), 28, 181-215

CODEN: SSCLY9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review of methods to prepare benzo-1,2-quinones and their applications to organic synthesis.

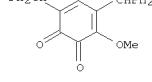
IT 212055-89-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(review preparation of benzoquinones with applications to organic synthesis)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 161 THERE ARE 161 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:16414 CAPLUS

DOCUMENT NUMBER: 144:254072

TITLE: Sterically encumbered regioselective cycloaddition of a calixarene-derived bis(spirodienone) with

1,2-benzoquinones  
AUTHOR(S): Varma, R. Luxmi; Ganga, V. B.; Suresh, E.; Suresh, C. H.

CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India

SOURCE: Tetrahedron Letters (2006), 47(6), 917-921

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:254072

AB A calix[4]arene-derived bis(spiro dienone) acts as the 2 $\pi$  component in a cycloaddn. reaction with two mols. of 3,5-di-tert-butyl-1,2-benzoquinone in the (2+4) manner leading to macrocyclics with a benzodioxin moiety. A theor. rationalization of the results suggested a sterically encumbered regioselective pathway, which gives sterically crowded products. The mol. structure of one of the products is presented and the resp. crystal data are deposited.

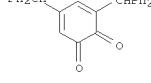
IT 247155-99-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(sterically encumbered regioselective cycloaddn. of calixarene-derived bis(spiro dienone) with ortho-benzoquinones)

RN 247155-99-3 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1086047 CAPLUS

DOCUMENT NUMBER: 144:22866

TITLE: Reaction of Huisgen Zwitterion with 1,2-Benzoquinones and Isatins: Expedited Synthesis of Dihydro-1,2,3-benzoxadiazoles and Spirooxadiazolines

AUTHOR(S): Nair, Vijay; Biju, A. T.; Vinod, A. U.; Suresh, Eringathodi

CORPORATE SOURCE: Organic Chemistry Section, Chemical Sciences Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India

SOURCE: Organic Letters (2005), 7(23), 5139-5142

CODEN: ORLEP7; ISSN: 1523-7060

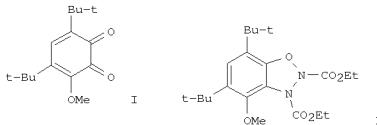
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

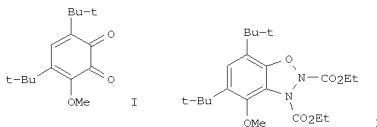
LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:22866

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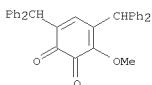
AB The zwitterionic intermediate generated from dialkyl azodicarboxylate and triphenylphosphine on reaction with 3-methoxy-1,2-benzquinones afforded dihydro-1,2,3-benzodiazoles. E.g., reaction of triphenylphosphine, DEAD, and 3-methoxy-1,2-benzquinone I gave 75% dihydro-1,2,3-benzodiazole II. N-Substituted isatins furnished spirooxadiazolines under similar conditions.

IT 212055-89-5 870475-16-4

RL RCT (Reactant); RACT (Reactant or reagent) (preparation of dihydro-1,2,3-benzodiazoles and spirooxadiazolines by reaction of zwitterionic intermediates generated from dialkyl azodicarboxylates and triphenylphosphine with 3-methoxy-1,2-benzquinones and N-substituted isatins)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



RN 870475-16-4 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-chlorophenyl)methyl]-3-methoxy- (CA INDEX NAME)

phthalimide-pentadiene conjugate, (5) converting the phthalimide to the phthalhydrazone by reaction with hydrazine to form a carrier compound according to the present invention, and (6) reacting the carrier compound with an nucleophilic moiety of the drug to form the corresponding prodrug. Alternatively the carrier can be prepared by using the halo-substituted diaryl ethylene to make the corresponding cationic leuco dye-like compound with known methods. The cationic compound then is protected by reacting with a nucleophile and coupled with the aminophthalimide by palladium-catalyzed amination to form the protected phthalimide-pentadiene conjugate. The latter is refluxed with hydrazine to convert its phthalimide to the phthalhydrazone and acidified to give the carrier. An addnl. aspect of the present invention relates to the use of these compds. as antiviral agents for the treatment of viral infections such as HIV and as anticancer agents for the treatment of cancers such as bowel, lung, and breast.

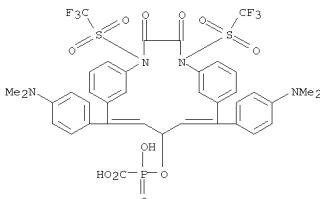
IT 849736-74-9

RL: SMI (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery)

RN 849736-74-9 CAPLUS

CN Phosphinecarboxylic acid, 1-[(11,15-bis[4-(dimethylamino)phenyl]-3,4-dioxo-2,5-bis[(trifluoromethyl)sulfonyl]-2,5-diaza-10,10,11,14,16,18-octae-13-yl)oxy]-1-hydroxy-, 1-oxide, sodium salt (1:2) (CA INDEX NAME)



•2 Na

IT 849736-77-2

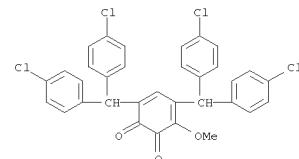
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery)

RN 849736-77-2 CAPLUS

CN 11,20-Dioxa-17-diazatricyclo[19.2.2.27,10]heptacosa-2,5,7,9,21,23,24,26-octae-15,16-dione, 4-[(1,2-dihydro-2-oxo-1-[(2R,5S)-tetrahydro-5-(hydroxymethyl)-2-furanyl]-4-pyrimidinyl)amino]-2,6-bis[4-(dimethylamino)phenyl]-14,17-bis[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)  
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 20051325744 CAPLUS  
DOCUMENT NUMBER: 142:397734  
TITLE: Preparation of prodrugs containing chemiluminescent and photochromic moieties for selective drug delivery  
INVENTOR(S): Mills, Randell L.; Wu, Guo-Zhang  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 199 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050080260	A1	20050414	US 2004-828558	20040421
PRIORITY APPLN. INFO.:		US 2003-464354P P 20030422		
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

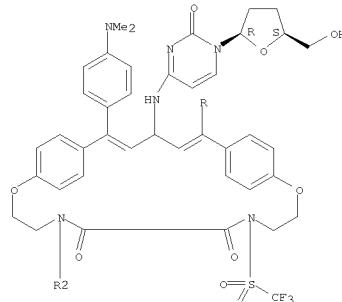
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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

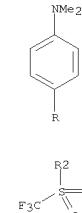
AB The invention relates to a method of synthesis of a chemical compound (I) having the formula A-B-C that may serve for applications such as drug delivery, where A is a chemiluminescent moiety, B is a photochromic moiety, and C is a biol. active moiety where A-B-C may serve as a prodrug. Novel synthetic methods of the present invention to form the prodrug comprised the steps of (1) forming a benzophenone, (2) forming a diaryl ethylene, (3) attaching a phthalimide moiety to at least one of the aryl groups of the ethylene to form a phthalimide-ethylene conjugate, (4) condensing two ethylene-phthalimide conjugates to form a

Double bond geometry unknown.

PAGE 1-A



PAGE 2-A

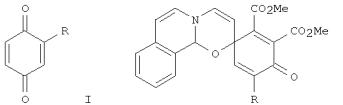


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

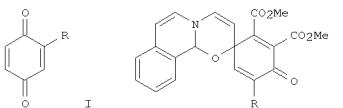
L6 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 2005213763 CAPLUS  
DOCUMENT NUMBER: 143:306253  
TITLE: 1,4-Dipolar cycloaddition in organic synthesis: a facile route to isoquinoline fused heterocycles  
AUTHOR(S): Nair, Vijay; Sreekanth, Anakkalil Ramachandran; Abhilash, Narayana Pillai; Biju, Akkattu Thankappan Nair; Varma, Luxmi; Viji, Sreemathi; Mathew, Saumini  
CORPORATE SOURCE: Organic Chemistry Division, Regional Research

SOURCE: Laboratory (CSIR), Trivandrum, 695019, India  
ARKIVOC (Gainesville, FL, United States) (2005), (11), 178-188  
CODEN: AGUAR  
URL: [http://www.arkat-usa.org/ark/journal/2005/I11\\_Swaminathan/1279L.pdf](http://www.arkat-usa.org/ark/journal/2005/I11_Swaminathan/1279L.pdf)

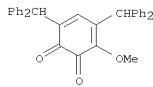
PUBLISHER: Arkat USA Inc.  
DOCUMENT TYPE: Journal; (online computer file)  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 143:306253  
GI



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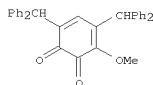


AB The three-component condensation reactions involving isoquinoline, di-Me acetylenedicarboxylate and carbonyl dipolarophiles such as o- and p-benzoquinones, e.g. I (R = H, Me, Ph), and N-substituted isatins constitute a one-pot synthesis of a variety of spirocyclic oxazinoisoquinolines, e.g. II, via 1,4-dipolar cycloaddn.  
IT 212055-89-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of spiro[cyclohexadiene-oxazinoisoquinoline]s and benzo-fused analogs by three-component condensation of isoquinoline, acetylenedicarboxylate and quinones via dipolar cycloaddn. pathway)  
RN 212055-89-5 CAPLUS  
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)  
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

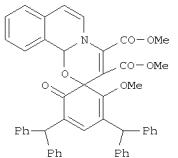
L6 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 2003:929135 CAPLUS  
DOCUMENT NUMBER: 140:145940  
TITLE: Multicomponent reactions involving zwitterionic intermediates for the construction of heterocyclic systems: one pot synthesis of aminofurans and iminolactones  
AUTHOR(S): Nair, Vijay; Vinod, A. Unni; Abhilash, N.; Menon, Rajeev S.; Santhi, V.; Varma, R. Luxmi; Viji, S.; Mathew, Saumini; Srinivas, R.  
CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
SOURCE: Tetrahedron (2003), 59(51), 10279-10286  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 140:145940  
AB The reaction of 1:1 zwitterionic intermediate generated in situ from di-Me acetylenedicarboxylate (DMAD) and cyclohexyl isocyanide with aldehydes and quinones is described. The reaction of stoichiometric ams. of DMAD, isocyanide and aldehydes afforded 2-aminofurans in good yields, while the reaction with quinones gave iminolactones.  
IT 212055-89-5, 4,6-Bis(diphenylmethyl)-3-methoxy-5-cyclohexadiene-1,2-dione  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of aminofurans and iminolactones via multicomponent reaction of aldehydes or ketones, di-Me acetylene dicarboxylate and cyclohexylisocyanide)  
RN 212055-89-5 CAPLUS  
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



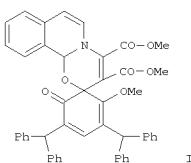
OS.CITING REF COUNT: 36 THERE ARE 36 CAPLUS RECORDS THAT CITE THIS RECORD (36 CITINGS)  
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:91005 CAPLUS  
DOCUMENT NUMBER: 138:401673  
TITLE: The reaction of isoquinoline and dimethyl acetylenedicarboxylate with 1,2- and 1,4-benzoquinones: a novel synthesis of spiro[1,3]oxazine[2,3-a]isoquinolines  
AUTHOR(S): Nair, Vijay; Sreekanth, A. R.; Biju, A. T.; Rath, Nigan P.  
CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
SOURCE: Tetrahedron Letters (2003), 44(4), 729-732  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 138:401673  
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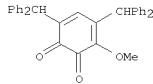


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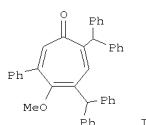
AB The 1,4-dipolar intermediate generated by the addition of isoquinoline to di-Me acetylenedicarboxylate is trapped by 1,2- and 1,4-benzoquinones by cyclocondensation, to afford spiro[1,3]oxazine[2,3-a]isoquinoline derivatives, e.g. I, in high yields. Crystal structure of major regioisomer of I is reported.  
IT 212055-89-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(synthesis of spirooxazinoisoquinolines by cyclocondensation of isoquinoline and di-Me acetylenedicarboxylate with benzoquinones)  
RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)

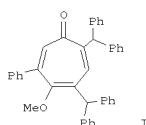


OS.CITING REF COUNT: 31 THERE ARE 31 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS)  
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 2002:699494 CAPLUS  
DOCUMENT NUMBER: 137:353180  
TITLE: SnCl4-Catalyzed Reaction of o-Benzoquinones and Aryl Acetylenes: An Unprecedented One-Pot Synthesis of Tropone Derivatives  
AUTHOR(S): Nair, Vijay; Sethumadhavan, D.; Nair, Smitha M.; Rath, Nigan P.; Eigendorf, Guenter K.  
CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695019, India  
SOURCE: Journal of Organic Chemistry (2002), 67(21), 7533-7536  
CODEN: JOCEAH; ISSN: 0022-3263  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 137:353180  
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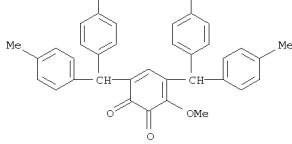
AB Highly substituted tropone derivs., e.g. I, were obtained as a result of SnCl4-catalyzed cycloaddn. of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation.

IT 474622-24-7 474622-25-8

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of tropone derivs. via SnCl4-catalyzed cycloaddn. of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation)

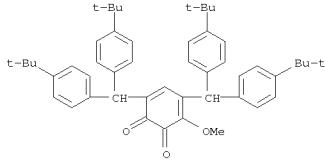
RN 474622-24-7 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-methylphenyl)methyl]-3-methoxy- (CA INDEX NAME)



RN 474622-25-8 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis[bis(4-(1,1-dimethylethyl)phenyl)methyl]-3-methoxy- (CA INDEX NAME)

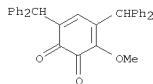


IT 212055-89-5

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of tropone derivs. via SnCl4-catalyzed cycloaddn. of 3-methoxy-substituted o-benzoquinones with aryl acetylenes and subsequent rearrangement of the adducts with concomitant decarbonylation)

RN 212055-89-5 CAPLUS

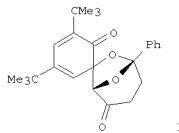
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



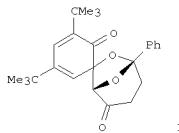
OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2002:379111 CAPLUS  
 DOCUMENT NUMBER: 137:352928  
 TITLE: 1,3-Dipolar cycloaddition reactions of carbonyl ylides with 1,2-diones: synthesis of novel spiro oxabicycles  
 AUTHOR(S): Nair, Vijay; Sheela, K. C.; Sethumadhavan, D.; Dhanya, R.; Rath, Nigam P.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
 SOURCE: Tetrahedron (2002), 58(21), 4171-4177  
 CODEN: TETRAB; ISSN: 0040-4020  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 137:352928  
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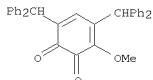
AB 1,3-Dipolar cycloaddn. reaction of carbonyl ylides with various o-quinones afforded highly oxygenated spiro oxabicycles, e.g. I.

IT 212055-89-5

RL: RCT (Reactant); RACT (Reactant or reagent) (1,3-dipolar cycloaddn. reactions of carbonyl ylides with 1,2-diones)

RN 212055-89-5 CAPLUS

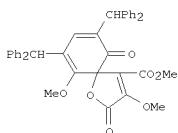
CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



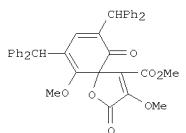
OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2000:787524 CAPLUS  
 DOCUMENT NUMBER: 134:86140  
 TITLE: Triphenylphosphane-mediated addition of dimethyl acetylenedicarboxylate to 1,2- and 1,4-benzoquinones: synthesis of novel  $\gamma$ -spirolactones  
 AUTHOR(S): Nair, Vijay; Nair, J. Somarajan; Vinod, A. U.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
 SOURCE: Synthesis (2000), (12), 1713-1718  
 CODEN: SYNTBF; ISSN: 0039-7881  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 134:86140  
 GI



GI



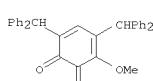
AB The zwitterionic intermediate generated by the addition of triphenylphosphane to di-Me acetylenedicarboxylate undergoes facile addition to ortho- and para-quinones to afford highly functionalized novel unsatd.  $\gamma$ -spirolactones, e.g., I, in moderate to high yields.

IT 212055-89-5

RL: RCT (Reactant); RACT (Reactant or reagent) (epirolactones) via triphenylphosphane-mediated cycloaddn. of di-Me acetylenedicarboxylate to quinones)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 25 THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

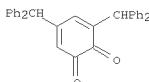
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2000:429535 CAPLUS  
 DOCUMENT NUMBER: 133:207602  
 TITLE: [4+2] Cycloaddition reactions of o-benzoquinones with styrenes: a facile synthesis of bicyclo[2.2.2]octenediones  
 AUTHOR(S): Nair, Vijay; Malikal, Davis; Treesa, P. M.; Rath, Nigam P.; Eigendorf, Guenter K.  
 CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
 SOURCE: Synthesis (2000), (6), 850-856  
 CODEN: SYNTBF; ISSN: 0039-7881  
 PUBLISHER: Georg Thieme Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 133:207602  
 AB o-Benzoquinones undergo facile Diels-Alder reaction with styrenes, resulting in a high yield synthesis of bicyclo[2.2.2]octenediones. Rate acceleration of this reaction can be achieved by employing lithium triflate in acetonitrile.

IT 247155-99-3

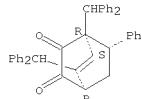
RL: RCT (Reactant); RACT (Reactant or reagent) (Diels-Alder reaction of o-benzoquinones with styrenes)

RN 247155-99-3 CAPLUS  
CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)



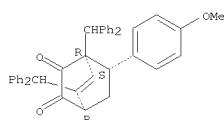
IT 289897-62-7P 289897-64-9P  
RL: SEN (Synthetic preparation); PREP (Preparation)  
(Diels-Alder reaction of o-benzoquinones with styrenes)  
RN 289897-62-7 CAPLUS  
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-phenyl-, (1R,4R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 289897-64-9 CAPLUS  
CN Bicyclo[2.2.2]oct-5-ene-2,3-dione, 1,5-bis(diphenylmethyl)-7-(4-methoxyphenyl)-, (1R,4R,7S)-rel- (CA INDEX NAME)

Relative stereochemistry.

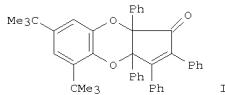


OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

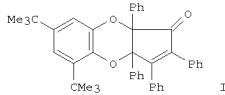
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1999-569956 CAPLUS  
DOCUMENT NUMBER: 131:310602  
TITLE: Hetero Diels-Alder reaction of o-benzoquinones with tetracyclone: an efficient synthesis of benzodioxinone derivatives  
AUTHOR(S): Nair, Vijay; Mathew, Bini; Radhakrishnan, K. V.; Rath, Nigam P.

CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
SOURCE: Tetrahedron (1999), 55(36), 11017-11026  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 131:310602  
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AB O-benzoquinones undergo facile hetero Diels-Alder reaction with tetracyclone leading to cyclopenta[b][1,4]benzodioxinones, e.g., I.

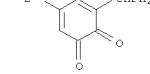
IT 247155-99-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(hetero Diels-Alder reaction of o-quinones with tetracyclone)

RN 247155-99-3 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 3,5-bis(diphenylmethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999-482803 CAPLUS

DOCUMENT NUMBER: 129:202877

ORIGINAL REFERENCE NO.: 129:41215a,41218a

TITLE: Novel 1,3-dipolar cycloaddition reaction of carbonyl ylide with o-quinones

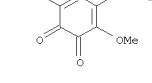
Yield: 70-80%

AUTHOR(S): Nair, Vijay; Sheela, K. C.; Radhakrishnan, K. V.; Rath, Nigam P.  
CORPORATE SOURCE: Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum, 695 019, India  
SOURCE: Tetrahedron Letters (1998), 39(31), 5627-5630  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 129:202877  
AB 1,3-Dipolar cycloaddn. reaction of carbonyl ylide with o-quinones afforded novel highly oxygenated spirocyclic compds.

IT 212055-89-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(1,3-dipolar cycloaddn. reaction of carbonyl ylide with o-quinones)

RN 212055-89-5 CAPLUS

CN 3,5-Cyclohexadiene-1,2-dione, 4,6-bis(diphenylmethyl)-3-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 32 THERE ARE 32 CAPLUS RECORDS THAT CITE THIS RECORD (33 CITINGS)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1992:72388 CAPLUS  
DOCUMENT NUMBER: 116:72388  
ORIGINAL REFERENCE NO.: 116:12180h,12181a  
TITLE: Optical recording medium  
INVENTOR(S): Santo, Takeshi; Tamura, Miki; Sugata, Hiroyuki  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.  
CODEN: JKXXAF

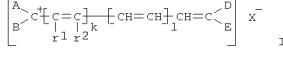
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

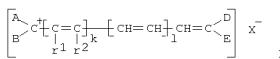
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03034137	A	19910214	JP 1989-166940	19890630
JP 2526125	B2	19960821		

PRIORITY APPLN. INFO.: JP 1989-166940 19890630

GI



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AB In the title optical recording medium obtained by coating a fine groove-bearing substrate based on a photocurable resin with an organic dye containing recording layer, the photocurable resin contains an epoxy monomer and a compound releasing a Lewis acid upon light exposure. The Lewis acid prepared is an anionic salt having a cation selected from BPF<sup>6</sup><sup>-</sup>, PF<sub>6</sub><sup>-</sup>, AsF<sub>6</sub><sup>-</sup>, SbF<sub>6</sub><sup>-</sup>, SnCl<sub>6</sub><sup>-</sup>, FeCl<sub>4</sub><sup>-</sup>, and BiCl<sub>5</sub><sup>-</sup>. The organic dyes are represented by I (A, B, D, E = H, alkyl, alkenyl, aralkyl, aryl, styril, heterocyclic; r1,r2 = H, alkyl, cycloalkyl, alkenyl, aralkyl, aryl; k = 0, 1; l = 0, 1, 2; X = anion) and other cationic dyes. The stability of the organic dyes is improved and deformation of the support is prevented.

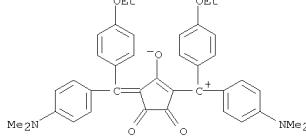
IT 138171-13-8

RL: USES (Uses)

(cationic dye, optical recording disk using)

RN 138171-13-8 CAPLUS

CN Methylum, [4-(dimethylamino)phenyl]3-[14-(dimethylamino)phenyl](4-ethoxyphenyl)methylene]-2-hydroxy-4,5-dioxo-1-cyclopenten-1-yl](4-ethoxyphenyl)-, inner salt (9CI) (CA INDEX NAME)



L6 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1990:189117 CAPLUS

DOCUMENT NUMBER: 112:189117

ORIGINAL REFERENCE NO.: 112:31793a,31796a

TITLE: Optical recording medium containing polymethine dyes with improved stability

INVENTOR(S): Sato, Tatsutomi; Ichinose, Keiko

PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

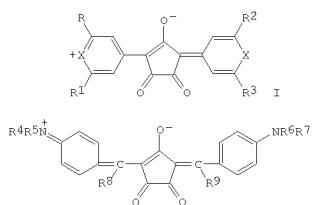
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

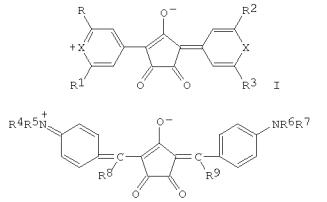
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01242288	A	19890927	JP 1988-71515	19880324



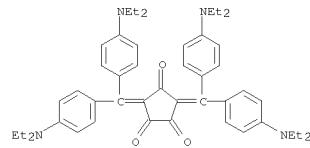
GI



AB Optical recording medium is composed of a substrate bearing thereon directly or via a undercoating a recording layer and when necessary a protective overcoating where the recording layer contains as main components 21 dyes selected from I and II [R, R1-3 = substituted or non-substituted Cl-12 alkyl, dialkyl-amino, aryl, H; R4-7 = Cl-12 alkyl; X = O, S, Se, NR10R11 Where R10, R11 = Cl-6 alkyl, aralkyl, H; R6, R9 = H, halo, alkoxy, dialkylamino, aryl]. The medium is superior in stabilities against light and heat which are brought by rerecording. Thus, a poly(Me methacrylate) disk (thickness of 2.2 mm, diameter of 130 mm) was coated with an acrylic phenolic ester which was patterned into a 100 Å deep leading groove with a 1.6 μm pitch to form a substrate for a recording medium. A dye I [R, R1-3 = CMe3, X = S] was dissolved in (CH2Cl)2 and spin-coated on the substrate to form a 600 Å thick recording layer. Recording and reading out of information were carried out by irradiating to the layer a light beam from a 790 nm semiconductor laser operated at a pulse frequency of 0.5 MHz and a scanning rate of 1.5 m/s to give a carrier to noise (C/N) ratio of 53 dB.

IT 126553-63-7

RL: USES (Uses)  
 (dye, in optical recording materials, with good heat resistance and light fastness)  
 RN 126553-63-7 CAPLUS  
 CN 1,2,4-Cyclopentanetrione, 3,5-bis[bis[4-(diethylamino)phenyl]methylene]-(CA INDEX NAME)



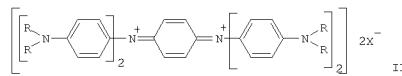
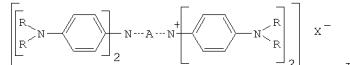
L6 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989-544196 CAPLUS  
 DOCUMENT NUMBER: 111:144196  
 ORIGINAL REFERENCE NO.: 111:23925a,23928a  
 TITLE: Optical recording medium  
 INVENTOR(S): Oguchi, Yoshihiro; Sugata, Hiroyuki; Miura, Kyo; Fukui, Tetsuro; Takasu, Yoshio  
 PATENT ASSIGNEE(S): Canon K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

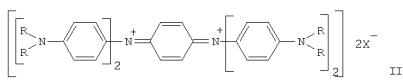
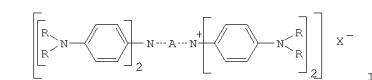
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 6322642	A	19880221	JP 1987-258807	19871014
US 4923390	A	19900508	US 1988-227862	19880802
PRIORITY APPLN. INFO.:			JP 1986-244609	AI 19861014
			JP 1986-253301	AI 19861023
			JP 1987-194597	A 19870804
			US 1987-106820	B2 19871013

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

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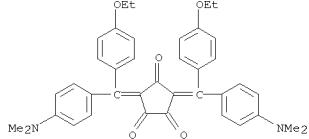
AB An optical recording medium contains ≥1 polymethine dyes and a compound selected from an ammonium compound (I) [R = H, alkyl; A = phenylene, biphenylene; X = anion], and a di ammonium compound (II) [R = H, alkyl; X = anion]. The material shows superior writing and reading capabilities and good shelf life.

IT 120381-49-9

RL: USES (Uses)  
 (polymethine dye, optical recording material using)

RN 120381-49-9 CAPLUS

CN 1,2,4-Cyclopentanetrione, 3,5-bis[4-(dimethylamino)phenyl](4-ethoxyphenyl)methylene]-(CA INDEX NAME)



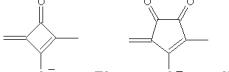
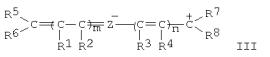
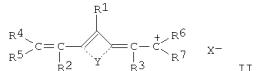
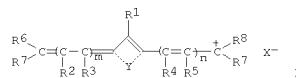
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (1 CITINGS)

L6 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 1989-415397 CAPLUS  
 DOCUMENT NUMBER: 111:15397  
 ORIGINAL REFERENCE NO.: 111:2629a,2632a  
 TITLE: Optical recording medium for optical disks and cords  
 INVENTOR(S): Fukui, Tetsuro; Miura, Kyo; Oguchi, Yoshihiro; Takasu, Yoshio  
 PATENT ASSIGNEE(S): Canon K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1

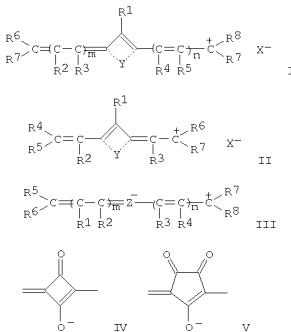
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63165181	A	19880708	JP 1986-309073	19861227
JP 2640457	B2	19970813	JP 1986-309073	19861227
PRIORITY APPLN. INFO.:				

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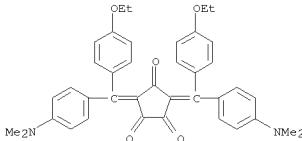
AB An optical recording medium for optical disks and cards contains  $\geq 1$  compds. selected from I [R1-R5 = H, halo, alkyl; R6-R9 = H, alkyl, alkenyl, aryl; Y = atom required to complete 5- or 6-membered ring; X- = anion; m, n = 0, 1, 2], II [R1-R3 = H, halo, alkyl; R4-R7 = H, alkyl, alkenyl, aryl; Y = group required to complete 5- or 6-membered ring], and III [R5-R8 = H, alkyl, alkenyl, aryl; R1-R4 = H, halo, alkyl; m, n = 0, 1, 2; Z = IV, V] and a metal chelate. The recording material has improved reflectivity and storage stability.

IT 120381-49-9

RL1 TEM (Technical or engineered material use); USES (Uses) (optical recording material containing)

RN 120381-49-9 CAPLUS

CN 1,2,4-Cyclopentanetrione, 3,5-bis[(4-(dimethylamino)phenyl)(4-ethoxyphenyl)methylene]- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

LG ANSWER 20 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN  
ACCESSION NUMBER: 1989:202998 CAPLUS

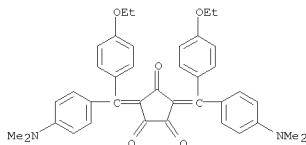
DOCUMENT NUMBER: 110:202998  
ORIGINAL REFERENCE NO.: 110:33533a,33536a  
TITLE: Laser recording medium containing two substrates pasted together by adhesive  
INVENTOR(S): Miyazaki, Takeshi; Fukui, Tetsuro  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63200339	A	19880818	JP 1987-31068	19870212
JP 05035491	B	19930526		

PRIORITY APPLN. INFO.: JP 1987-31068 19870212  
AB In the title medium made by pasting together with an adhesive a pair of substrates, leaving an empty space between them, of which  $\geq 1$  substrate has on the inside a recording layer containing an organic dye, the adhesive contains an epoxy monomer and a compound which generates a Lewis acid upon irradiation with light, such as diphenyliodonium hexafluorophosphate.  
IT 120381-50-2  
RL1 USES (Uses)  
(laser recording medium with recording layer of)  
RN 120381-50-2 CAPLUS  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[(4-(dimethylamino)phenyl)(4-ethoxyphenyl)methylene]-, perchlorate (1:1) (CA INDEX NAME)

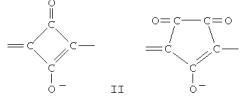
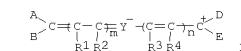
CM 1

CRN 120381-49-9  
CMF C39 H38 N2 O5



CM 2

CRN 7601-90-3  
CMF C1 H O4

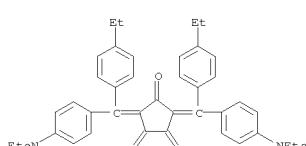


AB The title recording medium has an organic thin film containing I [Y- = II, III; A, B, D, E = H, (substituted) alkyl, aralkyl, aryl, styryl, heterocyclyl, alkenyl, cycloalkyl; R1-R4 = H, halogen, alkyl; m, n = 0-2]. This recording medium is useful as an optical disk or optical card. This recording medium shows high sensitivity to semiconductor lasers, high carrier wave-to-noise ratio, improved thermal and light stabilities, storage stability, and durability, and superior pit formation.

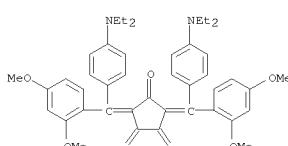
IT 118880-14-1 118880-15-2

RL1: USES (Uses)  
(organic thin film, containing, as recording layer, optical recording medium using)

RN 118880-14-1 CAPLUS  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[(4-(diethylamino)phenyl)(4-ethylphenyl)methylene]- (CA INDEX NAME)



RN 118880-15-2 CAPLUS  
CN 1,2,4-Cyclopentanetrione, 3,5-bis[(4-(diethylamino)phenyl)(2,4-dimethoxyphenyl)methylene]- (CA INDEX NAME)



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L6 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1961:137455 CAPLUS

DOCUMENT NUMBER: 55:137455

ORIGINAL REFERENCE NO.: 55:259281,259294a-g

TITLE: Isonitriles. VI. Reaction of isonitriles with ketenes

AUTHOR(S): Ugi, Ivar; Rosendahl, Karl

CORPORATE SOURCE: Univ. Munich, Germany

SOURCE: Chemische Berichte (1961), 94, 2233-8

CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

GI For diagram(s), see printed CA Issue.

AB Isonitriles with 2 moles of a ketene yielded derivs. of

1,2-cyclopentanetrione and in the presence of carboxylic acids

$\alpha,\gamma$ -dioxo carboxamides. The appropriate isonitrile (5

millimoles) in 10 cc. dry Et2O treated at -20° with 1.94 g. Ph2C:

CO and after 1 hr. evaporated in vacuo, and the residue digested with cold

iso-PrOH and recrystd. from C6H6 and iso-PrOH gave the corresponding

RR'C<sub>2</sub>CO.CCR'CO (I). In this manner were prepared the following I

(R and R' = Ph) (R', yield and m.p. of crude and of pure product given):

Et, 72, 134-50°, 62, 165-6°; Bu, 93, 83-5°, 82,

108-9°; cyclohexyl (II), 83, 170-4°, 77, 180-1°;

PhCH<sub>2</sub>, 79, 146-8°, 76, 150-1°, 2,6-Me2C6H<sub>3</sub>, 88, 74,

173-4°. The appropriate isonitrile (25 millimoles) and 7.07 g.

Et3N in 100 cc. dry Et2O and 100 cc. ligroine (b. 60-80°) treated

at 0° with stirring during 0.5 hr. with 50 millimoles carboxylic

acid chloride in 50 cc. dry Et2O, filtered after 2 hrs., and evaporated in

vacuo at 0°, and the residue digested with 15 cc. cold MeOH and

recrystd. from iso-PrOH gave the corresponding I. In this manner were

prepared the following I (R = H) (R', and yield and m.p. of crude and of

pure product given): Ph, cyclohexyl, 57, 127-30°, 53,

135-6°; Ph, 2,6-Me2C6H<sub>3</sub>, 33, 124-5°, 28, 126-7°;

p-ClC6H<sub>4</sub>, cyclohexyl, 41, 150-6°, 35, 164-5°; p-MeOC6H<sub>4</sub>,

cyclohexyl, 33, 134-5°, 22, 135-6°; II, 41, 151-70°,

38, 180-1°. The appropriate I (500 mg.) in 5 cc. tetrahydrofuran

treated at 20° with 0.25 cc. concentrated HCl and after 10 hrs. concentrated in

vacuo, and the residue recrystd. from C6H6-iso-PrOH gave the corresponding

RR'C<sub>2</sub>CO.CCR'CO (III). In this manner were prepared the following III

(R and R' = Ph) (R', and % yield and m.p. of crude and of pure product given): Et, 87, 137-9°, 83, 138, 5-9, 5°; Bu, 89,

143-5°, 83, 145-6°; cyclohexyl (IV), 89, 180-1°, 91,

184-5°; PhCH<sub>2</sub>, 95, 137-40°, 90, 140-1°; 2,6-Me2C6H<sub>3</sub>,

89, 175-7°, 83, 176, 5-7, 5°. In the same manner were prepared

the following III (R = H) (R', and yield and m.p. of crude and of

pure product given): Ph, cyclohexyl, 99, 95-100°, 74,

128-9°; Ph, 2,6-Me2C6H<sub>3</sub>, 96, 145-52°, 70, 156, 5-58°;

p-ClC6H<sub>4</sub>, cyclohexyl, 98, 150-70°, 54, 188-92°; p-MeOC6H<sub>4</sub>,

cyclohexyl, 98, 131-48°, 72, 153, 5-55°. Cyclohexyl

isonitrile (V) (1.64 g.) and 18 millimoles of an appropriate carboxylic

acid in 50 cc. dry Et2O treated with stirring at 0° with

2.91 g. Ph2C:CO and kept 10 hrs. at 0°, and filtered, and the residue

recrystd. from C6H6 and cyclohexane gave the corresponding RCOCPH<sub>2</sub>COCONHR' (R'

= cyclohexyl) (R, % yield, and m.p. of the pure product given): Me, 79,

141, 5-2, 5°; ClCH<sub>2</sub>, 69, 135, 5-6, 5°; Me<sub>3</sub>C, 67, 155-6°;

Ph2CH, 74, 184-5°; Ph, 78, 169, 5-69%; o-HOC6H<sub>4</sub>, 74,

155-6°; Ac, 52, 125-6°. V (3.27 g.) and 1.56 g. CH<sub>2</sub>(CO<sub>2</sub>H)<sub>2</sub>

in 80 cc. dry Et2O treated with stirring and cooling with 6.41 g. Ph2C:CO

and kept 10 hrs. at 0° gave 9.37 g. (crude)

(1,3,5,7-tetraoxo-2,2,6,6-tetraphenyl-1,7-heptanedicarboxylic acid

N,N'-dicyclohexyl diamide, m. 190° (decomposition) (C<sub>6</sub>H<sub>6</sub>-cyclohexane).

CO<sub>2</sub>(CH<sub>2</sub>CO<sub>2</sub>H)<sub>2</sub> with Ph<sub>2</sub>C:CO and V gave similarly 87%

1,3,5-7,9-tetraoxo-2,2,6,8-tetraphenyl-1,9-nonenedicarboxylic acid

N,N'-dicyclohexyl diamide, V (2.73 g.), 3.05 g. BzOH, 7.07 g. Et<sub>3</sub>N in 80

cc. dry Et<sub>2</sub>O and 80 cc. ligroine (b. 60-80°) treated with 5.75 cc.

Ph<sub>2</sub>CHCOCl in 50 cc. dry Et<sub>2</sub>O and filtered, and the residue digested with

50% MeOH and filtered gave 9.20 g. (crude)

$\alpha,\gamma$ -dioxo- $\beta,\beta$ -triphenoxybutyric acid

cyclohexylamide, m. 168, 5-69° (C<sub>6</sub>H<sub>6</sub>-cyclohexane). IV (1.03 g.)

refluxed 1 hr. with 7 mg. Na in 7.5 cc. absolute MeOH and concentrated to 3

cc. gave

538 mg. cyclohexylamide of Ph<sub>2</sub>CHCOCO<sub>2</sub>H, m. 107, 5-8, 5° (MeOH); the

mother liquor yielded 321 mg. Ph<sub>2</sub>CHCO<sub>2</sub>Et, b<sub>12</sub> 160-70°, m.

57-9° (MeOH).

IT 103566-78-5P, Nonanediamide,

N,N'-dicyclohexyl-2,4,6,8-tetraoxo-3,3,7,7-tetraphenyl-

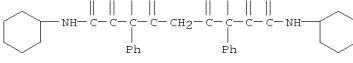
RL PREP (Preparation)

(preparation of)

RN 103566-78-5 CAPLUS

CN Nonanediamide, N,N'-dicyclohexyl-2,4,6,8-tetraoxo-3,3,7,7-tetraphenyl-

(6CI) (CA INDEX NAME)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

=> logoff hold

(FILE 'HOME' ENTERED AT 12:51:41 ON 04 JUN 2010)

FILE 'REGISTRY' ENTERED AT 12:51:56 ON 04 JUN 2010

L1 STRUCTURE UPLOADED

D

L2 0 SEA FILE=REGISTRY SSS SAM L1

L3 STRUCTURE UPLOADED

D

L4 0 SEA FILE=REGISTRY SSS SAM L3

L5 18 SEA FILE=REGISTRY SSS FUL L3

D L5 18 L18

FILE 'CAPLUS' ENTERED AT 12:55:37 ON 04 JUN 2010

L6 22 SEA FILE=CAPLUS SPE=ON ABB=ON PLU=ON L5

D L6 1B1B GI ABS HITSTR 1-22

COST IN U.S. DOLLARS

SINCE FILE TOTAL

FULL ESTIMATED COST

ENTRY SESSION

128.32 360.33

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

CA SUBSCRIBER PRICE

ENTRY SESSION

-18.70 -18.70

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:56:25 ON 04 JUN 2010